

**California Air Resources Board - Meteorology Section
Basinwide Ag-Burn Acreage Allocation - Sacramento Valley Air Basin**

Date: 19-Jan-22

Local Time: 06:19 AM

Meteorologist: Gerber

Ag Burn Decision Above 3000 ft: Permissive Burn Day (Fair)

A.M. Stability (°F) = 16

Wind Speed (mph) = 13

500 millibar height

(decameters) = 570

Average Rainfall (in) = 0

**Meteorological (MET)
Factor**

= 0.55

Air Quality (AQ) Factor (Basinwide 00-06 PST Average PM_{2.5})

= 18.3

Allocation Equation:

= 3925

**ARB REVISED Basinwide
Allocation**

= 2000

Revised Allocation

= 1560

District	Yesterday's 24-Hr Avg PM _{2.5}	Yesterday's PM _{2.5} (0-6 PST)	Reduction Factor	Proration	Final Allocation (Acres)	Avg PM _{2.5} (0-6 PST) Conc	Stn
Colusa	15	15	1	0.17	200	18	COL
Sutter	26	24	0.4	0.17	80	32	YUB
Butte	21	33	1	0.17	200	22	CIC-GRD
Yolo/Solano	12	12	1	0.15	200	14	DAV-WOO
Glenn	12	7	1	0.13	200	12	WLW
Sacramento	26	40	0	0.09	0	24	SAC
Yuba	26	24	0.4	0.07	80	32	YUB
Placer	17	19	1	0.05	200	20	ROS
Tehama	9	10	1	200 acres unless reduced by PM	200	13	RBL
Shasta	14	19	1		200	8	AND

When any district's 0-6 am average PM_{2.5} is >= 27 ug/m increasing concentrations will result in a reduction in allocation acres (e.g. 27-28 : 20%, 29-30 : 40%, 31-32 : 60%, 33-34 : 80%)

ARB Comments

Cautionary Comments:

*** *Permissive Burn Day* ***

Elevated PMs in some spots has lead to some reductions today. A ribbon of low clouds is present from about the Sutter Buttes Southward which should remain until about late morning. North winds increase a little more today then yesterday especially along the North and West sides of the valley which should help to mix out the lower levels. High pressure will build in along the West Coast the rest of the week keeping the area dry with mild afternoon temps but chilly overnight low creating more early morning stability issues. Take caution if burning today.

24hr Outlook

*** *Permissive Burn Day* ***

As high pressure builds in on Thursday, another, stronger round of north winds looks likely for Friday and Saturday with another inside slider trough. Beyond that, no big changes are in the cards, so expect cold nights, pleasant days, and poor air quality under this stagnant blocking pattern late in the weekend.

Mixing Height Discussion:

Valley: Mixing heights will reach 1000-1500 feet this afternoon.

Winds:

N/W Valley: N to NW 10-15 mph gusts 20mph

S/E Valley: N to NW 5-10 mph

Delta: W to NW 5-10 mph

